

What is claimed is:

1. A water dispersible granule formulation of agricultural chemicals, the formulation comprising:

a homogeneous granulation comprising a first active ingredient which is wet milled and a second active ingredient which is pulverized into coarser particles than said first active ingredient by dry milling, the first and second active ingredients being either the same or different active ingredients;

the formulation having a particle size distribution wherein each of the first and second active ingredients have two different average particle sizes;

the average particle size of the first active ingredient having a value from about 0.5 μm to about 5 μm ,

the average particle size of the second active ingredient having a value from about 3 μm to about 30 μm , and

the first active ingredient being a compound which is a solid at an ambient temperature and has a solubility in water of 1,000 ppm or less.

2. The formulation according to Claim 1, wherein the first active ingredient is selected from a group consisting of triflumizole, thiuram, fluazinam, anilazine, captan, hexythiazox, benzoximate, tebufenpyrad, ziram, thiophanate methyl, mepanipyrim, clethoxim methyl, triazine and N'-cyclopropylmethyloxy-N-phenylacetyl-2,3-difluoro-6-trifluoromethylbenzamidine and combinations thereof.

3. A process for producing a water dispersible granule formulation comprising the steps of:

wet milling a combined mixture of a first active ingredient, a wetting and dispersing agent and water, pulverizing a combined mixture of a second active ingredient, a mineral carrier and a wetting and dispersing agent under dry milling, and admixing the mixture obtained in the wet milling step and the mixture obtained in the dry milling step, and then drying the admixed mixture to form a homogeneous granule formulation,

wherein the first active ingredient is pulverized to an average particle size value from about 0.5 μm to about 5 μm ,

wherein the second active ingredient is pulverized to an average particle size value from about 3 μm to about 30 μm ,

wherein the first active ingredient is a compound which is a solid at an ambient temperature and has a solubility in water of 1,000 ppm or less, and

wherein the first and second active ingredients are either the same or different active ingredients.

4. The process according to Claim 3, wherein the first active ingredient is selected from a group consisting of triflumizole, thiuram, fluazinam, anilazine, captan, hexythiazox, benzoximate, tebufenpyrad, ziram, thiophanate methyl, mepanipyrim, clethoxim methyl, triazine and N'-cyclopropylmethyloxy-N-phenylacetyl-2,3-difluoro-6-trifluoromethylbenzamidide and combinations thereof.

5. A water dispersible granule formulation of agricultural chemicals, the formulation comprising:

a homogeneous granulation comprising a wet first active ingredient and a dry second active ingredient, the dry second active ingredient having coarser particles than said first active ingredient, the first and second active ingredients being either the same or different active ingredients;

the formulation having a particle size distribution wherein each of the first and second active ingredients have two different average particle sizes;

the average particle size of the first active ingredient having a value from about 0.5 μm to about 5 μm ,

the average particle size of the second active ingredient having a value from about 3 μm to about 30 μm , and

the first active ingredient being a compound which is a solid at an ambient temperature and has a solubility in water of 1,000 ppm or less.

6. The formulation according to Claim 5, wherein the first active ingredient is selected from a group consisting of triflumizole, thiuram, fluazinam, anilazine, captan, hexythiazox, benzoximate, tebufenpyrad, ziram, thiophanate methyl, mepanipyrim, clethoxim methyl, triazine and N'-cyclopropylmethyloxy-N-phenylacetyl-2,3-difluoro-6-trifluoromethylbenzamidine and combinations thereof.

7. The formulation according to Claim 5, wherein the first active ingredient is first wet milled before its mixture with the second active ingredient to form the homogeneous granulation and the second active ingredient is first pulverized and dry milled before its mixture with the first active ingredient to form the homogeneous granulation.